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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/815,574	04/01/2004	Sang-bo Lee	5649-1255	9388	
75	90 10/28/2004		EXAMINER		
Mitchell S. Bi	gel bley & Sajovec, P.A.		PHAN, TRONG Q		
P.O. Box 37428		ART UNIT	PAPER NUMBER		
Raleigh, NC 2	27627		2818		
			DATE MAIL ED: 10/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/815,574	LEE, SANG-BO					
Office Action Summary	Examiner	Art Unit					
	TRONG PHAN	2818					
The MAILING DATE of this communication ap Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 01 /							
· <u> </u>	is action is non-final.						
3) Since this application is in condition for allowed	•						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4:	53 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 1004. 	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

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Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: OUTPUT DRIVER, PTRSTB, PTRST and 131 in Fig. 1 Prior Art; all elements in Fig. 2 Prior Art; 2nd STAGE, OUTPUT DRIVER, PTRSTB and PTRST CLKDQ_F and CLKDQ_S in Figs. 3-4; all elements in Fig. 5. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the memory cell array, the CAS latency information signal, the clock signal and the rising edge and the falling edge of a delay signal of the clock signal as recited in claims 1 and 5; the memory cell array, the CAS latency information signal, the output enable signal, the clock signal and

the rising edge and the falling edge of a delay signal of the clock signal as recited in claims 3 and 7; the memory cell array and the rising edge and the falling edge of a signal as recited in claims 9 and 11; the output enable signal and the rising and the falling edge of the signal as recited in claim 12 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

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art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is not understood what OUTPUT DRIVER, PTRSTB, PTRST and 131 in Fig. 1

Prior Art; all elements in Fig. 2 Prior Art; 2nd STAGE, OUTPUT DRIVER, PTRSTB and

PTRST CLKDQ_F and CLKDQ_S in Figs. 3-4; all elements in Fig. 5 really are since they are not described in the specification.

It is not understood what the memory cell array, the CAS latency information signal, the clock signal and the rising edge and the falling edge of a delay signal of the clock signal as recited in claims 1 and 5; the memory cell array, the CAS latency information signal, the output enable signal, the clock signal and the rising edge and the falling edge of a delay signal of the clock signal as recited in claims 3 and 7; the memory cell array and the rising edge and the falling edge of a signal as recited in claims 9 and 11; the output enable signal and the rising and the falling edge of the signal as recited in claim 12 really are since they are not shown in the drawings of the present invention.

It is not understood how the circuits in Figs. 3-4 of the present invention are operating since all the control signals as recited in Fig. 5 of the present invention are not

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described in the specification and also are not fully shown to incorporated with the circuits in Figs. 3-4 of the present invention.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Thompson et al., 6,128,244, Kim et al., 6,134,180, Morzano et al., 6,600,691, and Kono, 6,741,521.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (571) 272-1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRONG PHAN
PRIMARY EXAMINER